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H. O. Pub. No. 240

BIBLIOGRAPHY ON ICE OF
THE NORTHERN HEMISPHERE



UNITED STATES NAVY DEPARTMENT
HYDROGRAPHIC OFFICE

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H. O. Pub. No. 240

BIBLIOGRAPHY ON ICE OF THE NORTHERN HEMISPHERE

The bibliography for H. O. Pub. No. 550, Ice Atlas of the Northern Hemisphere, now in preparation by
the Hydrographic Office, to which has been added an index of authors, subjects, and places.

ISSUED UNDER THE AUTHORITY OF THE SECRETARY OF THE NAVY



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BIBLIOGRAPHY ON ICE OF
THE NORTHERN HEMISPHERE

The bibliography for II, O. Pub. No. 391, for Atlas of the Northern Hemisphere, now in preparation by
the Hydrographic Office, in which has been added an index of subjects, subjects, and places.

ORDERED BY THE SECRETARY OF THE NAVY



UNITED STATES
NAVY
HYDROGRAPHIC OFFICE
WASHINGTON, D. C.

The following is a list of the publications of the Hydrographic Office, United States Navy, which are available for sale to the public.

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PREFACE

This is the first publication of bibliographic material compiled during World War II by the Hydrographic Office. The references in this list resulted from library research carried out in connection with the preparation of H. O. Pub. 550, *Ice Atlas of the Northern Hemisphere*, and with studies prepared by this office for the Joint Army-Navy Intelligence Service.

Sources of information not elsewhere mentioned in this bibliography are:

Lists of Current Publications on Snow and Ice, contained in the Transactions of the American Geophysical Union, vols. 20, 21, and 23, 1939, 1940, and 1942, by Carl Elges, R. G. Stone, B. P. Veinberg, R. W. Burhoe, and H. P. Boardman.

Die Erforschung des Polargebietes Russisch-Eurasiens See- und Landreisen während der Jahre 1912-1924. Petermanns Mittheilungen Ergänzungsheft 188. 1925. Die Erforschung des Nordpolargebiets in den Jahren 1913-1928 (Innere Arktis und Europäischer Sektor)...1913-1931 (Sibirischer und Amerikanischer Sektor). Geographisches Jahrbuch, v. 44, 1929. v. 47, 1932. By L. L. Breitfuss.

Bibliography of Meteorological Literature, pub. by the Royal Meteorological Society of London. v. 1, 1936 to date.

Indexes to the various publications of the Akademiâ nauk, Leningrad.

Index of Literature on Hydrology in the U. S. S. R. (In Russian.)

For 1928, pub. in *Izvestiâ* of the Gosudarstvennyi Hidrologicheskii Institut, v. 30, 1931. For 1929-1930, pub. separately by the Tsentralnoe Bûro Hidrologicheskoi Bibliografii of the same institute.

Publications of the Arctic Research Institute 1920-1939. (In Russian.)

Problemy Arktiki, 1940, no. 3, pp. 157-184.

Each issue of the monthly magazine: *Problemy Arktiki*, bibliography section. v. 1, 1937 to date.

In addition to these sources, there are excellent bibliographies in certain general textbooks listed herein, notably: H. T. Barnes (item 1341), B. P. Veinberg (item 1600), and N. N. Zubov (item 1628).

The geographical positions (coordinates), which are given in the geographical index, are intended to facilitate reference to charts and maps, and in many instances are only approximate.

The bibliography was compiled by Miss Mary C. Grier, former librarian at the Oceanographic Laboratories, University of Washington, Seattle, Washington. A number of titles were supplied by John C. Weaver, Lt. (j.g.) S-U.S.N.R.

ABBREVIATIONS OF PERIODICALS

Aarb. Norsk. geogr. selsk.	Norske geografiske selskab. Aarbok.
Abh. Preuss. met. inst.	Preussisches meteorologisches institut, Berlin. Abhandlungen.
Akad. nauk Sovet izuch. prirod. resursov. Ĭakutsk.	Akademiĭa nauk, Leningrad. Sovet po izucheniiu proizvoditel'nykh sil SSSR. Seriĭa Ĭakutskaiĭa. (Early years as Sovet po izucheniiu prirodnnykh resursov.)
Allg. bauztg.	Allgemeine bauzeitung.
Allg. fischereiztg.	Allgemeine fischerei-zeitung. Munich.
Amer. almanac, Boston.	American almanac and repository of useful knowledge.
Amer. j. sci.	American journal of science.
Ann. chim.	Annales de chimie et de physique.
Ann. géogr.	Annales de géographie.
Ann. hydrogr., Berlin.	Annalen der hydrographie und maritime meteorologie, Berlin.
Ann. hydrogr., Paris.	Annales hydrographiques, Paris.
Ann. phys. n.f.	Annalen der physik. Neue folge.
Annu. rep. Engrs. dep.	U. S. Engineer department. Annual report Chief of engineers, U.S. Army.
Annu. Soc. mét. France.	Société météorologique de France. Annuaire.
Arb. Met. inst. Univ. Lettlands.	Riga. Latvijas universitate. Meteorologiskas institut. Darbi. (Riga. Universitat Lettlands. Meteorologische institut. Arbeiten.)
Arch. dtsch. Seewarte.	Hamburg. Deutsche Seewarte. Aus dem Archiv der deutschen Seewarte.
Arch. naturk. Dorpat.	Archiv für die naturkunde Liv-, Est- und Kurlands.
Arch. sci. phys. nat. Genève.	Bibliothèque universelle. Archives des sciences physiques et naturelles, Geneva.
Atti Congr. geogr. Ital.	Congresso geografico italiano. Atti.
Aurora.	Aurora; zeitschrift in monatlichen heften über witterungs- erd- und menschenkunde, Berlin.
Balt. wschr.	Baltische wochenschrift. Jurjev.
Beitr. geophys.	Gerlands beiträge zur geophysik.
Beitr. phys. fr. atm.	Beitraege zur physik der freien atmosphäre.
Beob.-ergeb. Int. Polarf.	Internationale polarforschung, 1882/83. Beobachtungen-ergebnisse.
Ber. Dtsch. wiss. komm. meer- esf. n.f.	Deutsche wissenschaftliche kommission für meeresforschung, Berlin. Berichte; neue folge.
Ber. mitt. Freunde naturw. Wien.	Gesellschaft der freunde der naturwissenschaften in Wien. Bericht über die mittheilungen.
Ber. Naturf. ges. Freiburg.	Naturforschende gesellschaft zu Freiburg. Berichte.
Bidr. Finl. nat. folk.	Bidrag till kännedom af Finlands natur och folk.
Būl. Arkt. inst.	Leningrad. Vsesoūzniy arkticheskii institut. Būlleten.
Būl. Gos. gidrol. inst.	Leningrad. Gosudarstvennyi gidrologicheskii institut. Būlleten.
Būl. Obshch. izuch. kraĭa Muz. Tobol'sk. severa.	Tobolsk. Muzei Tobol'skogo severa. Obshchestvo izucheniiĭ kraĭa. Būlleten.
Būl. pogody i sost. mor. Feodosiĭa.	Būlleten pogody i sostoiĭaniĭa morĭa Feodosiĭa.
Būl. St.-P. okr. put. soobshch.	Saint Peterburgskii okrug putei soobshcheniĭa. Būlleten. (Un-verified.)
Būl. Volkhov. gidro-elek.-sil. ust.	Volkhovskaiĭa gidro-elektro-sila ustanovka. Būlleten.

- Bül. Vost.-Sib. otd. Russ. geogr. obshch. Gosudarstvennoe russkoe geograficheskoe obshchestvo. Vostochno-Sibirskii otdel, Bülleten.
- Boll. Com. naz. geod. geofis. Italy. Consiglio nazionale della ricerche. Comitato nazionale per la geodesia e la geofisica. Bollettino.
- Bull. Akad. nauk. hist.-phil. Akademiâ nauk, Leningrad. Classe historico-philologique. Bulletin.
- Bull. Amer. geogr. soc. American geographical society, N.Y. Bulletin.
- Bull. Amer. met. soc. American meteorological society. Bulletin.
- Bull. Assn. sci. France. Association scientifique de France. Bulletin hebdomadaire.
- Bull. Biol. bd. Can. Canada. Biological board. Bulletin.
- Bull. Cent. met. obs. Japan. Central meteorological observatory. Bulletin.
- Bull. Cercle. géogr. Liègeois. Cercle des géographes liègeois. Bulletin.
- Bull. Hydrogr. dept. Tokyo. Japan. Hydrographic Department. Bulletin.
- Bull. Inst. océan. Institut océanographique, Monaco. Bulletin.
- Bull. Int. geod. geophys. un. Assn. sci. hydrol. International geodetic and geophysical union. Association of scientific hydrology. Bulletin.
- Bull. Mineral.-geol. inst. Upsala univ. Upsala. Universitet. Mineralogisk-geologiska institut. Bulletin.
- Bull. Nat. res. coun. National research council. Bulletin.
- Bull. Soc. d'océan. France. Société d'océanographie de France. Bulletin.
- Bull. Soc. géogr. Bordeaux. Société de géographie commerciale de Bordeaux. Bulletin.
- Bull. Soc. geophys. Varsovie. Towarzystwo geofizyczne w Warszawie. Biuletyn.
- Bull. U.S.C.G. U.S. Coast guard. Bulletin.
- Bull. U.S.G.S. U.S. Geological survey. Bulletin.
- Bull. U.S.W.B. U.S. Weather Bureau. Bulletin.
- C.R. Acad. d'Athènes. Akadēmia Athēnōn. Praktika.
- C.R. Acad. sci. Paris. Academie des sciences, Paris. Comptes rendus.
- C.R. Akad. nauk. Akademiâ nauk, Leningrad. Comptes rendus (Doklady.)
- Carl's repert. phys. Repertorium der physik. (Carl) Munich.
- Comm. Hydrol. conf. Baltic States. Hydrological conference Baltic States, 1st-6th. Communications. (In various languages.)
- Comment. phys.-math., Helsingfors. Finska vetenskaps-societeten, Helsingfors. Commentationes physico-mathematicae.
- Contract rec. Contract record and engineering review. Toronto.
- Denkschr. Akad. wiss. Wien. Math.-naturh. kl. Akademie der wissenschaft, Vienna. Mathematisch-naturhistorische klasse. Denkschriften.
- Dtsch. rdsch. geogr. stat. Deutsche rundschau für geographie und statistik. Vienna.
- Edinb. phil. j. Edinburgh philosophical journal.
- Finnl. hydrogr.-biol. undersuch. Finnlandische hydrographisch-biologische untersuchungen.
- Fiskeridir. skr. s. havunders. Norway. Fiskeridirektoratet. Skrifter, serie havundersøkelser.
- Forh. Tekn. foren. Finl. Tekniska foreningens i Finland. Forhandlingar.
- Forsch. ing.-wes. Forschung auf dem gebiete des ingenieurwesens. (Verein Deutscher Ingenieur.)
- Geofiz. sborn. Leningrad. Glavnaâ geofizicheskafâ observatoriâ. Geofizicheskii sbornik.
- Geofys. publ. Geofysiske publikasjoner.
- Géogr. La Géographie.
- Geogr. abh. Geographische abhandlungen.
- Geogr. ann. Geografiska annaler, Stockholm.

Geogr. j.	Geographical journal, London.
Geogr. jb.	Geografisches Jahrbuch.
Geogr. rev.	Geographical review.
Geogr. tidsskr.	Norsk geografisk tidsskrift.
Geol. issled. zolot. obl. Sib.	Geologicheskii issledovaniia zolotonosnykh oblasti Sibiri. St. Peterburg. (Explorations géologiques dans les régions aurifères de Sibérie.)
Geophys. mem.	Great Britain. Meteorological office. Geophysical memoirs.
H. ex. doc.	U.S. Congress. House executive document.
H. misc. doc.	U.S. Congress. House miscellaneous document.
Handl. Svensk. vetensk.-akad.	Svenska vetenskapsakademien, Stockholm. Handlingar.
Hydrogr. bull. (Suiro Yoho).	Hydrographic bulletin (Suiro Yoho). Hydrographic department, Tokyo.
Hydrogr. rev.	Hydrographic review. International hydrographic bureau, Monaco.
Hydrol. obsns. mar. exped. 2d Int. Polar yr. exped.	International Polar year expedition, 2d, 1932-33. Hydrological observations of marine expedition.
Inform. biul. ukrmetu, Kiev.	Informatsionnyi biulleten ukrmetu, Kiev. (Unverified.)
Int. rev. hydrob.	Internationale revue der gesamten hydrobiologie und hydrographie
Issled. mor. SSSR	Issledovaniia morei SSSR. (Leningrad. Gosudarstvennyi gidrologicheskii institut.)
Issled. rek SSSR	Issledovaniia rek SSSR. (Leningrad. Gosudarstvennyi gidrologicheskii institut.)
Iziusk. issled. Svistr.	Iziuskaniia i issledovaniia Svistroia. (Unverified.)
Izv. Akad. nauk fiz.-khim. inst.	Akademiia nauk, Leningrad. Fizikokhimicheskii institut. Izvestiia.
Izv. Akad. nauk s. geogr. geofiz.	Akademiia nauk, Leningrad. Izvestiia. Otdelenie matematicheskikh i estestvennykh nauk. Seriia geograficheskai i geofizicheskai.
Izv. Arkhangel'sk. obshch. izuch. russ. severa.	Arkhangel'skoe obshchestvo izucheniia russkogo severa, Archangel. Izvestiia.
Ivz. Assof's. nauchn.-issled. inst. Mosk. univ.	Moscow. Universitet. Fiziko-matematicheskii fakul'tet. Assof'siia nauchno-issledovatel'skikh institutov. Izvestiia.
Izv. Donsk. politekhn. inst.	Donskii politekhnicheskii institut. Izvestiia.
Izv. Glavn. geofiz. obs.	Leningrad. Glavnaia geofizicheskai observatoriia. Izvestiia.
Ivz. Gos. gidrol. inst.	Leningrad. Gosudarstvennyi gidrologicheskii institut. Izvestiia.
Izv. Ākut'sk. otd. Russ. geogr. obshch.	Gosudarstvennoe russkoe geograficheskoe obshchestvo. Ākutskii otdel. Izvestiia.
Izv. Inst. gidrotekhn.	Leningrad. Nauchno-issledovatel'skii institut gidrotekhniki. Izvestiia.
Izv. Russ. geogr. obshch.	Gosudarstvennoe russkoe geograficheskoe obshchestvo. Izvestiia.
Izv. Sobr. inzh. put. soobshch.	Sobranie inzhenerov putei soobshcheniia, St. Peterburg. Izvestiia.
Izv. Sred.-Sib. geogr. obshch.	Sredne-Sibirskoe gosudarstvennoe geograficheskoe obshchestvo-Krasnoyarsk. Izvestiia.
Izv. Tomsk. tekhnol. inst.	Tomskii industriial'nyi institut. Izvestiia. (Through 1924 as Tomskii tekhnologicheskii institut.)
Izv. T'sentr. gidromet. biuro.	T'sentralnoe gidrometeorologicheskoe biuro. Izvestiia. (U.S.S.R.)
Izv. Turkestansk. otd. Russ. geogr. obshch.	Sredne-Aziatskoe geograficheskoe obshchestvo, Tashkent. Izvestiia.
Izv. Vost.-Sib. otd. Russ. geogr. obshch.	Gosudarstvennoe russkoe geograficheskoe obshchestvo. Vostochno-Sibirskii otdel, Irkutsk. Izvestiia.
J. appl. phys.	Journal of applied physics.
J. Assn. Chin. Amer. engrs.	Association of Chinese and American engineers, Peking. Journal.

J. cons. explor. mer.	International council for the study of the sea, Copenhagen. Journal du conseil.
J. Franklin inst.	Franklin institute. Journal.
J. geogr.	Journal of geography.
J. Met. soc. Jap.	Meteorological society of Japan. Journal.
J. ocean.	Journal of oceanography. (Kobe, Japan. Imperial Marine observatory.)
J. Roy. geogr. soc.	Royal geographical society, London. Journal.
J. Roy. soc. Dublin.	Royal society of Dublin. Journal.
J. Roy. soc. N.S.W.	Royal society of New South Wales. Journal.
J. Scot. met. soc. Edinb.	Scottish meteorological society, Edinburgh. Journal.
Jap. j. phys.	Japanese journal of physics.
Jber. Geogr. ges. München.	Geographische gesellschaft, München. Jahresbericht.
Jber. Naturh. mus. Wien. Arch. polarforsch.	Vienna. Naturhistorisches museum. Jahresbericht des Archivs für polarforschung.
Maine agric. rep.	Maine. Department of agriculture. Report of the commissioner.
Mar. obs.	Marine observer.
Mat. Hidrol. sluzhbi gidrol. r. Kiiv. Hidromet. shchorichnik.	This reference has not been located. (Materials of the Hydrologic service. Hydrology of river Kiev. Hydrometeorological annual.)
Matér. étude calam.	Matériaux pour l'étude des calamités. (Société de géographie de Genève.)
Mater. Kom. Ĭakutsk. A.S.S.R.	Komissii po izucheniū Ĭakutskoe A.S.S.R. Materiāly.
Mater. opis. russ. rek.	Materiāly dlā opisaniā russkikh rek, St. Peterburg.
Medd. Danske met. inst.	Denmark. Meteorologiske institut. Meddelelser.
Medd. Norges Svalb. Ishavsundersøk.	Norges Svalbard- og Ishavs-undersøkelser. Meddelelse.
Medd. om Grønland.	Meddelelser om Grønland.
Medd. Svensk. met.-hydrogr. anstalt.	Sweden. Meteorologisk-hydrografiska anstalt. Meddelanden.
Mem. Akad. nauk.	Akademiiā nauk, Leningrad. Memoirs.
Mem. Akad. nauk s.8 Math.-phys.	Akademiiā nauk, Leningrad. Memoirs . . . sciences mathématiques, physiques et naturelles.
Mem. Manchester lit. phil. soc.	Manchester literary and philosophic society. Memoirs.
Mem. trav. Soc. ing. civ. France.	Société des ingenieurs civils de France, Paris. Memoires et travaux.
Mem. Wern. soc.	Wernerian natural history society, Edinburgh. Memoirs.
Merent. julk.	Finland. Havforskningsinstitutet. Merentutkimuslaitos julkaisu.
Met. i. gidrol.	Meteorologiiā i gidrologiā.
Met. mag.	Meteorological magazine.
Met. vestn.	Meteorologicheskii vestnik.
Met. z.	Meteorologische zeitschrift.
Mil. engr.	Military engineer.
Miss. sci. suéd. Spitzberg.	Missions scientifiques pour le mesure d'un arc de meridien au Spitzberg . . . 1899-1902. Mission suédoise.
Mitt. Geogr. ges. Hamburg.	Geographische gesellschaft, Hamburg. Mittheilungen.
Mitt. Geogr. ges. Wien.	Geographische gesellschaft, Vienna. Mittheilungen.
Mitt. Ver. erdk. Dresden.	Verein für erdkunde, Dresden. Mittheilungen.
Mon. weath. rev.	Monthly weather review.
Mondo sotter.	Mondo sotteraneo. Rivista per lo studio delle grotte e dei fenomeni carsici. Udine.

Münchener geogr. stud.	Münchener geographische studien.
Nat. geogr. mag.	National geographic magazine.
Naturw. wschr.	Naturwissenschaftliche wochenschrift.
Naut. mag.	Nautical magazine.
Naut.-met. aarb.	Denmark. Meteorologiske institut. Nautisk-meteorologisk aarbog.
Nov. acta Vetensk.-soc. Upsala.	Vetenskaps-societeten i Upsala. Nova acta.
Nya handl. Svensk. vetensk. akad.	Svenska vetenskapsakademien, Stockholm. Nya handlingar.
Ofvers. förh. Svensk. vetensk. akad.	Svenska vetenskapsakademien, Stockholm. Ofversigt af förhandlingar.
Pap. phys. ocean. met.	Massachusetts institute of technology. Papers in physical oceanography and meteorology.
Petermanns mitt. ergänz.	Petermanns mittheilungen. Ergänzungsheft.
Phil. mag.	London, Edinburgh, and Dublin philosophical magazine.
Phil. trans. Roy. soc.	Royal society of London. Philosophical transactions.
Prace Pozn. towarz. przyj. nauk Kom. mat.-przys.	Poznanskie towarzystwo przyjaciół nauk, Posen. Komisja matematyczno-przyrodnicza. Prace.
Proc. Amer. phil. soc.	American philosophical society. Proceedings.
Proc. Engrs. club Phila.	Engineers and engineering. (1879-1917 as Engineers' club of Philadelphia. Proceedings.)
Proc. Roy. geogr. soc.	Royal geographical society. Proceedings.
Proc. Roy. inst. Gr. Brit.	Royal institution of Great Britain. Proceedings.
Proc. Roy. soc. Pt. A.	Royal society of London. Proceedings. Pt. A.
Proc. trans. Roy. soc. Can.	Royal society of Canada. Proceedings and transactions.
Proc. U.S. nav. inst.	United States naval institute. Proceedings.
Prot. 2-ogo met. s'ezd Akad. nauk.	Meteorologicheskii s'ezd pri Akademii nauk, 2-ogo, St. Petersburg, 1909. Protokoly.
Publ. circ. cons. explor. mer.	International council for the study of the sea, Copenhagen. Publication de circonstance.
Publ. Østgrønland.	Publikationer om Østgrønland, udg. af Kapt. Alf Trolle og Hustrus begat til minde om Danmark-ekspeditionen 1906-1908.
Publ. U.S.H.O.	U.S. Hydrographic office. Publication.
Quart. j. Roy. met. soc.	Royal meteorological society. Quarterly journal.
Rab. Oskafâ biol. sta.	Murom. Oskafâ biologicheskafâ stantsiâ. Raboty.
Rapp. cons. explor. mer.	International council for the study of the sea, Copenhagen. Reports et proces-verbaux.
Rep. Hydrol. conf. Baltic states.	Hydrological conference of the Baltic states, 1st-6th. Reports. (In various languages.)
Rep. Int. Congr. navig.	International congress of navigation. Report.
Rep. Jt. bd. engrs. St. Lawrence.	Joint board of engineers on St. Lawrence waterway project (U.S. and Canada.) Report.
Rep. Smith. inst.	Smithsonian institution. Annual report.
Report. met. Dorpat.	Repertorium für meteorologie. (Gosudarstvennoe russkoe geograficheskoe obshchestvo.) Dorpat.
Report. met. suppl.	Meteorologicheskii sbornik. Repertorium für meteorologie. Supplementband.
Rev. gén. sci. pures appl.	Revue générale des sciences pures et appliquées.
Rev. géogr. alpine.	Revue de géographie alpine.
Rev. marit. n.s.	Revue maritime et coloniale, nouveau serie.
Rev. sci.	Revue scientifique.

- Rev. trav. Off. sci. techn. pêches marit. Office scientifique et technique des pêches maritimes. Revue des travaux.
- Riv. fis. mat. sci. nat. Rivista di fisica, matematica e scienze naturali, Pavia.
- Russ. sudokhod. Russkoe sudokhodstvo. St. Petersburg.
- S.B. Akad. wiss. Wien Math.-naturh. kl. Akademie der wissenschaften, Vienna. Mathematisch-naturhistorische klasse. Sitzungsberichte.
- S.B. Naturf. ges. Univ. Dorpat. Tartu. Estonia. Ulikool. Loodusuuri ajatead. Aruanded. (To 1905 as Dorpater naturforscher gesellschaft. Sitzungsberichte.)
- Sborn. gidr.-met. nabl. U.S.S.R. Gidrograficheskoe upravlenie. Sbornik gidro-meteorologicheskikh nabludenii.
- Sborn. Inst. inzh. Leningradskii institut inzhenerov putei soobshcheniia. Sbornik.
- Sborn. Leningrad. nauchn. issled. inst. vodosn. kanal. gidrotekhn. soor. inzh. gidrogeol. Leningrad. Nauchno-issledovatel'skii institut vodosnabsheniia kanalizatsii, gidrotekhnikh sooruzhenii i inzhenernyi gidrogeologicheskikh. Sbornik. (Unverified.)
- Sborn. morsk. kraeved. obshch. [Aroslav]. This reference has not been located. May be a publication of [Aroslavskoe estestvenno-istoricheskoe i kraevedcheskoe obshchestvo].
- Sborn. otch. prem. i nagrad. Akad. nauk. Akademiia nauk, Leningrad. Sbornik otchetov o premiakh i nagradakh, prisuzhdaemykh.
- Schr. Inst. Östeurop. wirtsch. Königsberg. Universität. Institut für Östeuropäische wirtschaft. Schriften.
- Sci. res. Norw. N. Polar exped. Norwegian North Polar expedition with the Fram, 1893-1896 . . . with the Maud, 1918-1925. Scientific results.
- Scot. geogr. mag. Scottish geographical magazine.
- Skr. Norsk. vidensk.-akad. Mat.-naturv. kl. Norske videnskaps-akademi, Oslo. Matematisk-naturvidenskapelig klasse. Skrifter.
- Skr. Svensk. hydrogr.-biol. komm. Sweden. Hydrografisk-biologiska kommissioner. Skrifter.
- Soobshch. nauchn.-tekhn. rab. v resp. Soobshcheniia o nauchno-tekhnicheskikh rabotakh v respublike.
- Spec. publ. Amer. geogr. soc. American geographical society, N.Y. Special publication.
- Suppl. pap. Roy. geogr. soc. Royal geographical society. Supplementary papers.
- Tekn. tidskr. Teknisk tidskrift, Stockholm.
- Termt. közl. Természettudományi közlöny. Budapest.
- Terra. Terra. Suomen maantieteellinen seura. Helsingfors.
- Tijdschr. K. Inst. ing. K. Instituut van ingenieurs, The Hague. Tijdschrift.
- Trans. Amer. geophys. un. American geophysical union. Transactions.
- Trans. Amer. soc. mech. engrs. American society of mechanical engineers. Transactions.
- Trans. Canad. soc. civ. engrs. Engineering institute of Canada. Transactions. (To 1918 as Canadian society of civil engineers, Montreal.)
- Trans. Roy. soc. Can. Royal society of Canada. Transactions.
- Transp. i. khoz. Transport i khoziaistvo.
- Trav. Cab. geogr. phys. Univ. St.P. Leningrad. Universitet. Kabinet fizicheskoi geografii. Trudy.
- Trav. géogr. Tchéques. Prague. Universita Karlova. Institut géographique. Travaux géographiques Tchéques.
- Treas. dep. doc. U.S. Treasury department. Document.
- Trud. Arkt. inst. Vsesoiuznyi Arkticheskii institut, Leningrad. Trudy.
- Trud. Baikal'sk. limnol. stants. Akademiia nauk, Leningrad. Baikal'skaiia limnologicheskaiia stantsiia. Trudy.
- Trud. Gos. gidrol. inst. Leningrad. Gosudarstvennyi gidrologicheskii institut. Trudy.
- Trud. Gos. okean. inst. Gosudarstvennyi okeanograficheskii institut, Moscow. Trudy.

Trud. Inst. gidrotekhn. Sborn. ledotekhn.	Sbornik ledotekhniki. Leningrad. Nauchno-issledovatel'skii institut gidrotekhniki. Trudy.
Trud. Inst. izuch. severa.	Institut po izucheniiu severa. Trudy.
Trud. Irkutsk. magn. met. obs.	Irkutskaiu magnitnaiu i meteorologicheskaiu observatoriui. Trudy.
Trud. Kom. Iakutsk. ASSR.	Komissiiu po izucheniiu Iakutskoi A.S.S.R. Trudy.
Trud. Kom. izuch. vechn. merzl.	Komissiiu izucheniiu vechnoi merzloty. Akademiiu nauk, Leningrad. Trudy.
Trud. Leningrad. otd. Vse. nauchn. inzh.-tekhn. obshch. vodn. transp.	Vsesoiuznoe nauchnoe i inzhenernotekhnicheskoe obshchestvo vognogo transporta. Leningradskoe otdelenie. Trudy.
Trud. Morsk. nauchn. inst.	Morskoi nauchnyi institut, Moscow. Trudy.
Trud. Novocherkassk. inzh.-meliorat. inst.	Novocherkasskii inzhenerno-melioratsii institut. Trudy. (Unverified.)
Trud. Novosibirsk. inst. voen. inzh. zhel.-dorozhn. transp.	Novosibirskii institut voennykh inzhenerov zhelezno-dorozhnogo transporta. Trudy.
Trud. Sibirsk. fiz.-tekhn. inst.	Sibirskii fiziko-tekhnikeskii institut, Tomsk. Trudy.
Trud. Sungari. biol. sta.	Obshchestvo izucheniiu Manchzhurskogo kraiu, Harbin, China. Izdatel'stvo. s.B. Trudy Sungariiskoi rechnoi biologicheskoi stantsii.
Trud. Taimyrsk. gidrogr. eksped.	Taimyrskaiu gidrograficheskaiu ekspeditsiiu. Trudy.
Trud. Vost.-Sib. otd. Russ. geogr. obshch.	Gosudarstvennoe russkoe geograficheskoe obshchestvo. Vostochno-Sibirskii otdel. Trudy.
Trud. Vse. gidrol. s'ezd. Leningrad.	Vsesoiuznyi gidrologicheskii s'ezd, Leningrad, 1928. Trudy.
Trud. Vse. nauchn. inzh. tekhn. obshch. sudostr.	Vsesoiuznoe nauchnoe inzhenerno tekhnicheskoe obshchestvo sudostroeniui, Leningrad. Trudy.
Uchen. zap. s. geol.-pochv.-geogr. Leningrad univ.	Leningrad. Universitet. Uchenye zapiski. Seriiu geologo-pochvenno-geograficheskaiu.
Välj. Tartu ulik. eesti veek. uur. kom.	Tartu. Estonia. Ulikool. Ulikooli eesti veekogude uurimise komisjoni. Väljaanne.
Verh. Dtsch. phys. ges.	Deutsche physikalische gesellschaft, Berlin. Verhandlung.
Verh. Int. geogr.-kongr.	International geographical congress. 7th, Berlin, 1899. Verhandlungen Internationalen geographen-kongresses Berlin, 1899.
Verh. Int. ver. theor. angew. limnol.	Internationale vereinigung für theoretischen und angewandte limnologie. Verhandlungen.
Verh. Schweiz. naturf. ges.	Schweizerische naturforschende gesellschaft. Verhandlungen.
Veröff. Inst. meeresk. Berlin.	Berlin. Universitet. Institut für meereskunde. Veröffentlichungen.
Versl. meded. Akad. wet. afd. natuurk.	K. Akademie van wetenschappen. Amsterdam. Afdeeling natuurkunde. Verslagen en mededeelingen.
Vestn. Dalnevost. fil. Akad. nauk.	Akademiiu nauk, Leningrad. Dal'nevostochnyi filial, Vladivostok. Vestnik.
Vestn. Russ. geogr. obshch.	Gosudarstvennoe russkoe geograficheskoe obshchestvo. Vestnik.
Vestn. Saratovsk. otd. Russ. tekhn. obshch.	Russkoe tekhnicheskoe obshchestvo, St. Petersburg. Saratovskoe otdelenie. Vestnik. (Unverified.)
Vodn. transp.	Vodnyi transport, Moscow.
Wash. univ. publs. ocean.	Washington (State) University. Publications in oceanography.
Wash. univ. studies n.s. sci. techn.	Washington university, St. Louis. Studies, science and technology; new series.
Weltall.	Das Weltall. Illustrierte zeitschrift für astronomie und verwandte gebiete. Berlin.
Wetter.	Das Wetter. Meteorologische monatsschrift. Berlin.
Wiss. meeresunters. Abt. Kiel.	Wissenschaftliche meeresuntersuchungen. Abt. Kiel.
Wiss. veröff. Mus. länderk. n.f.	Leipzig. Museum für länderkunde. Wissenschaftliche veröfentlichungen; neue folge.

Wittenb. wbl.	Wittenbergisches wochenblatt zum aufnehmen der naturkunde und des ökonomischen gewerbes.
Wschr. Österr. ing. archit.-ver.	Österreichischer ingenieur- und architekten vereins. Wochenschrift.
Z. bauw.	Zeitschrift für bauwesen.
Z. geophys.	Zeitschrift für geophysik.
Z. geopolitik.	Zeitschrift für geopolitik.
Z. Ges. erdk.	Gesellschaft für erdkunde, Berlin. Zeitschrift.
Z. gewässerkr.	Zeitschrift für gewässerkunde.
Z. met.	Oesterreichische gesellschaft für meteorologie, Vienna. Zeitschrift.
Z. Sibirsk.	Zeitschrift Sibirsk, Novonikolaevsk. (Unverified.)
Z. Ver. dtsch. ing.	Verein Deutscher ingenieure, Berlin. Zeitschrift.
Zap. Akad. nauk. Prilozh.	Akademiâ nauk, Leningrad. Zapiski; prilozhenie.
Zap. gidrogr.	Zapiski po gidrografii.
Zap. Gos. gidrol. inst.	Leningrad. Gosudarstvennyi gidrologicheskii institut. Zapiski.
Zap. Inst. gidrotekhn.	Leningrad. Nauchno-issledovatel'skii institut gidrotekhniki. Zapiski.
Zap. Obshch. izuch. Amur. kraïa.	Gosudarstvennoe russkoe geograficheskoe obshchestvo. Vladivostokskii otdel. Zapiski. (Obshchestvo izucheniâ Amurskogo kraïa.)
Zap. Russ. geogr. obshch.	Gosudarstvennoe russkoe geograficheskoe obshchestvo. Zapiski.
Zbl. bauverw.	Zentralblatt der bauverwaltung.
Zes. Pol. wiad. sluzby hydrogr.	Poland. Wiadomosci sluzby hydrograficznej. Zeszyt.
Zh. Fis.-khim. obshch. chast' fiz.	Russkoe fiziko khimicheskoe obshchestvo. Chast' fizicheskâ. Zhurnal.
Zh. geofiz.	Zhurnal geofiziki, Moscow.
Zh. geofiz. met.	Zhurnal geofiziki i meteorologii, Moscow.
Zh. Min. put. soobshch.	Russia (Imp.) Ministerstvo putei soobshcheniâ. Zhurnal.
Zh. obshch. khim.	Zhurnal obshchei khimi.
Zh. prikl. fiz.	Zhurnal prikladnoi fiziki.
Zh. tekhn. fiz.	Zhurnal tekhnicheskoi fiziki.

Listed below are abbreviations used throughout the bibliography:

...	= omissions.	Izd.	= Izdanie, izdatel' (Publication, publisher.).
()	= number, when in periodical reference.	L.	= leaves.
[]	= additions supplied by cataloguer.	m.	= meters.
append.	= appendix, appendices.	p., pp.	= pages.
ch.	= chapter.	p. L.	= preliminary leaf.
col.	= colored.	photos.	= photographs.
Comp.	= compiler, compiled.	pl.	= plates.
corr.	= corrected.	prelim.	= preliminary.
diags.	= diagrams.	prep.	= prepared, preparation.
Doc.	= document.	pub.	= published.
ed.	= edition, editor.	ref.	= reference.
fold.	= folding, folded.	s.	= series.
fol.	= following.	spec.	= special.
hrsg.	= herausgegeben.	Str.	= Strait, Straits.
I.	= Island.	suppl.	= supplement.
illus.	= illustrated, illustrations.	t.-p.	= title-page.
Imp.	= imprimerie (printing office).	Tip.	= Tipografiâ (printing office.)
incl.	= including.	transl.	= translated, translation.
Is.	= Islands.	v.	= volume.

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SEE ALSO: 1, 2, 197, 634, 648, 649, 650, 938, 1659, 1672, 1691.

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